

INTERNATIONAL SEARCH REPORT

International Application No

P//EP2004/006721

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C08G61/02 C07C25/22 H01L51/30 C07C1/20 C07C1/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C08G C07C H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>PLUMMER B F ET AL: "STUDY OF GEOMETRY EFFECTS ON HEAVY ATOM PERTUBATION OF THE ELECTRONIC PROPERTIES OF DERIVATIVES OF THE NONALTERNANT POLYCYCLIC AROMATIC HYDROCARBONS FLUORANTHENE AND ACENAPHTHOL[1,2-k]FLUORANTHENE" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol. 115, 1993, pages 11542-11551, XP002271035</p> <p>page 11542; figure I</p> <p>page 11544, right-hand column, last paragraph</p> <p>-----</p> <p>-/--</p>	8-10

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

18 October 2004

Date of mailing of the international search report

01 MAR 2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Schlicke, B

INTERNATIONAL SEARCH REPORT

International Application No

P/EP2004/006721

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HARVEY R G ET AL: "NEW SYNTHETIC APPROACH TO POLYCYCLIC AROMATIC HYDROCARBONS AND THEIR CARCINOGENIC OXIDEZED METABOLITES" JOURNAL OF ORGANIC CHEMISTRY, vol. 65, no. 13, 2000, pages 3952-3960, XP002271036 Page 3954; Scheme 3; Compound 15	8
A	MÜLLEN K ET AL: "BRIDGING THE GAP BETWEEN POLYFLUORENE AND LADDER-POLY-p-PHENYLENE: SYNTHESIS AND CHRACTERIZATION OF POLY-2,8-INDENOFLUORENE" MACROMOLECULES, vol. 33, 2000, pages 2016-2020, XP002271037 cited in the application the whole document	1-19
A	WO 00/53656 A (TOWNS CARL ROBERT ;DELL RICHARD O (GB); CAMBRIDGE DISPLAY TECH (GB) 14 September 2000 (2000-09-14) cited in the application abstract	1-19
A	WO 00/22026 A (KREUDER WILLI ;AXIVA GMBH (DE); BECKER HEINRICH (DE); SPREITZER HU) 20 April 2000 (2000-04-20) the whole document	1-19

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2004/006721

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-19

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-19

An oligomer or polymer comprising an optionally substituted first repeat unit of the formula Ir.

An optionally substituted monomer of the formula Im.

A process for preparing an oligomer or polymer comprising the step of oligomerising or polymerising a monomer of the formula Im.

2. claims: 20-24

A method of forming an optionally substituted compound of the formula I comprising the steps of eliminating leaving groups from the optionally substituted compound of the formula Ip.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/006721

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0053656	A	14-09-2000	
		AU 2926400 A	28-09-2000
		CA 2362459 A1	14-09-2000
		CN 1343225 T	03-04-2002
		EP 1165648 A1	02-01-2002
		WO 0053656 A1	14-09-2000
		JP 3310658 B1	05-08-2002
		JP 2002539287 T	19-11-2002
		US 2002095017 A1	18-07-2002
		US 6353072 B1	05-03-2002
WO 0022026	A	20-04-2000	
		DE 19846766 A1	20-04-2000
		AU 5743699 A	01-05-2000
		CN 1330670 T	09-01-2002
		DE 59908822 D1	15-04-2004
		WO 0022026 A1	20-04-2000
		EP 1123336 A1	16-08-2001
		JP 2002527553 T	27-08-2002
		US 6653438 B1	25-11-2003